Walter Reed Army Medical Center
Department of Psychology
Neuropsychology Service

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Presents

# Computerized Neurocognitive Assessment: State of the Art

Speakers:

## Robert Kane, Ph.D., Joseph Bleiberg, Ph.D. & Fred Hegge, Ph.D.

**Place:** Walter Reed Army Medical Center (WRAMC); WALT1 Video-Teleconference Room (Main Hospital, 2nd Floor). Parking is available in the underground garage off of Georgia Ave.; however, carpooling is encouraged.

**Time:** Thursday, May 20, 1999

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| 07:30-14:30 | WALT1 Video-Teleconference Room |
| 15:00-16:30 | National Rehabilitation Hospital Tour |

Friday, May 21, 1999

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| 07:30-17:00 | WALT1 Video-Teleconference Room |

**Keynote Presenters:**

Robert Kane, Ph.D. is currently the Director of Neuropsychology for the VA Maryland Health Care System. He has expertise in computerized neurocognitive assessment and has been working with NASA on the development of the Space Flight Cognitive Assessment Tool. He has a Diplomate in Clinical Neuropsychology.

Joseph Bleiberg, Ph.D. is currently the Director of Neuroscience Research and Chair of the Behavioral Sciences Section at the National Rehabilitation Hospital. He was previously the program director of the National Rehabilitation Hospital's Brain Injury Program. He has a Diplomate in Clinical Neuropsychology.

Fred Hegge, Ph.D. is currently a Senior Scientist in the Division of Military Casualty Care. He was previously the Director of Army Operational Medicine Research. He is one of the developers of the Tester's Workbench, under which the ANAM series was developed, and is currently working on development of the Defense Medical Knowledge Engineering System and it's extension to distributed, networked performance assessment systems.

**Workshop Description:** The workshop will present a comprehensive overview of the state of the art of computerized neurocognitive assessment. It will review the history of computerized assessment and the background and development of individual test batteries. The workshop will provide detailed information on computerized test batteries developed for toxicology, aviation, performance, and clinical assessment. It will explore performance assessment as developed in the Department of Defense and present the growing relationship between performance and clinical assessment. The contributions and advantages of using computers will be explored along with current limitations. The reluctance of clinicians to integrate computerized assessment into their routine clinical activities will be discussed. In addition, the workshop will provide a discussion of future directions in computerized assessment including adaptive testing, telemedicine, and virtual reality. The workshop will provide hands on experience as well as a tour of the virtual reality laboratory at the National Rehabilitation Hospital.

**Workshop Objectives:**

1. Participants will learn about the range of computerized batteries available for neurocognitive assessment.

2. Participants will learn how to evaluate computerized test instruments. They will appreciate the advantages and caveats associated with automated assessment and be able to use this information when evaluating computerized tests.
3. Participants will have sufficient knowledge of selected computerized neurocognitive test batteries (ANAM, CogScreen, MicroCog, NES, S-CAT) to evaluate which procedures to use with specific populations and for which research questions.
4. Participants will learn how computerized tests can augment traditional neuropsychological assessment and how they may facilitate screening in the future.
5. Participants will learn about future directions in computerized assessment including virtual reality.
6. Participants will learn how to load, administer, and score the ANAM battery.

**Computer Demonstrations:** Participants are encouraged to bring a laptop computer for software demonstrations.

**Continuing Education Units (CEUs) Offered (15):** The Department of Psychology, Walter Reed Army Medical Center, is approved by the American Psychological Association to offer continuing education for psychologists. The Department of Psychology maintains responsibility for the program. Seven (7) hours of CEU credit will be given for full attendance on the first day (May 20th) and eight (8) hours of CEU credit will be given for full attendance on the second day (May 21st). Certificates will be distributed at the end of each day.

**Registration/Cancellation:** RSVP to Daniel Christensen, Ph.D. by May 14, 1999 at (202) 782-5914/0065. On voice mail, please leave your name(s), date(s) of attendance, phone number and government/civilian affiliation. There is no fee. If the workshop is cancelled, persons who have registered will be notified at least 2 days prior to the first day of the workshop. Although not anticipated, it is possible that the VTC portion of the workshop will be cancelled without prior notice due to unforeseen technical problems.

Please note: Lunch will not be provided, but can be obtained from surrounding facilities.